

IN THE SPECIFICATION

Please amend the specification as follows.

Page 1, between the title and the first paragraph, insert:

-- BACKGROUND OF THE INVENTION

Field of the Invention. --

Page 1, after the first full paragraph, delete "BACKGROUND OF THE INVENTION" and insert, flush left:

-- **Description of the Prior Art.** --

Paragraph bridging pages 1 and 2, amend as follows:

-- Advancements in communication technologies have permitted the development, and implementation, of many different types of communication systems. Different types of communication systems provide, for instance, variously half-simplex, half-duplex, and full duplex communication schemes. ~~And pursuant~~ Pursuant to such various communication systems, the data to be communicated by the sending station to the receiving station is communicated in electrical form by way of wire line connections interconnecting the sending and receiving stations, as well as in electromagnetic form by way of radio links formed between the sending and receiving stations. --

Page 12, first full paragraph, amend as follows:

-- The proxy 36 is here shown to include an identifier 38 formed of an authentication request detector 42, a request message forward 44, and, here, memory elements 46 and 48. The authentication request detector is operable to detect generation of an authentication request routed to the proxy. Responsive to detection of the authentication request, the request message forwarder is operable to generate a signaling protocol message for communication to the core network. Here, the message generated

by the request message forward includes indicia retrieved from the memory elements 56 and 58. The memory element 46 is representative of the memory location at which indicia associated with the type of authentication procedure, such as the CAVE algorithm, is to be performed to authenticate the mobile station. ~~And, the~~ The memory element 48 stores indicia associated with a location connected to the core network at which at least portions of the authentication procedure are performed. The indicia retrieved from the memory elements 46 and 48, or otherwise obtained, ~~is~~ are to populate newly defined fields of the message formed by, and forwarded by, the forwarder 44. --

Page 13, first full paragraph, amend as follows:

-- Signaling between the authentication center and the mobile station is thereafter effectuated to ~~effectuate authentication of~~ authenticate the mobile station to communicate in the access network 16-1. Mobile stations requesting authentication to communicate with other access networks are analogously authenticated through routing of a message to an appropriate authentication center connected to the core network. --

Page 16, second full paragraph, amend as follows:

-- Thereby, a manner is provided by which to facilitate authentication of a mobile station in a cellular communication system having a core network and access networks. When an authentication request is generated, information indicia associated with the authenticator is added to a signaling protocol message which ~~his~~ is communicated by the access network to the core network and used ~~thereat~~ there to facilitate the effectuation of authentication procedures to authenticate the mobile station. --